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*Claims*

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What is claimed is:

1. A manpower vehicle driven by weight, characterized in that, includes a drive mechanism called Cheng-Ze drive mechanism, which can transform input shaft's swing motion into output shaft's unilateral rotation, wherein the input shaft and the output shaft run parallel; and  
a pedal mechanism for driving (1), mounted on the input shaft (I-I) which is extended from the front of a well-airtight wheel box (2), which can be pedaled up and down alternately with the left and right foot; and  
a coupling (3), connected with a force-transmitting link (4) on the output shaft (II-II), which is extended from the back of the wheel box (2); and  
a pair of bevel gears (6) and (7), mounted on the other end of the force-transmitting link (4) and the wheel shaft (8) respectively; and  
pedals (1-3) or (1-6) or (1-8) of the pedal mechanism, when these are continually pedaled by the left and right foot (1) up and down, that is, under the action of weight, the input shaft (I-I) in the wheel box (2) is